

# Diesel Risk Reduction Plan

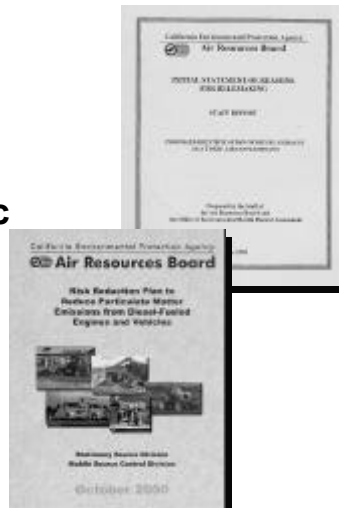


California Environmental Protection Agency

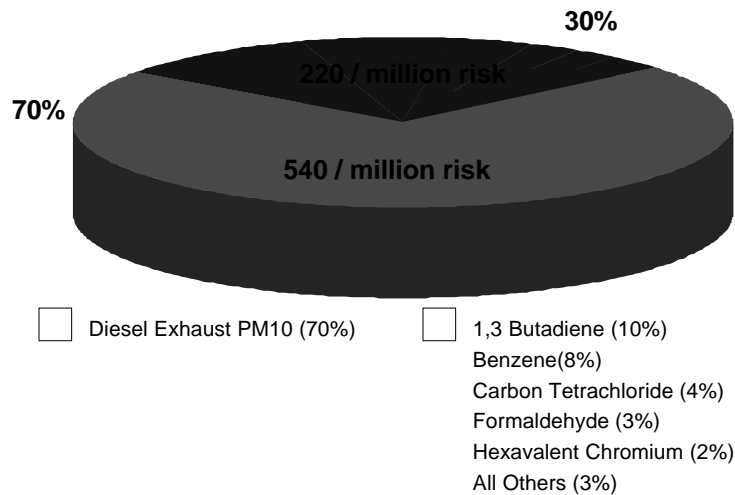
Air Resources Board

## Diesel PM: Identification and a Plan to Control

- August 1998 Board listed “Particulate Matter Emissions from Diesel-Fueled Engines” as a Toxic Air Contaminant
- September 2000 Board approved the Diesel Risk Reduction Plan

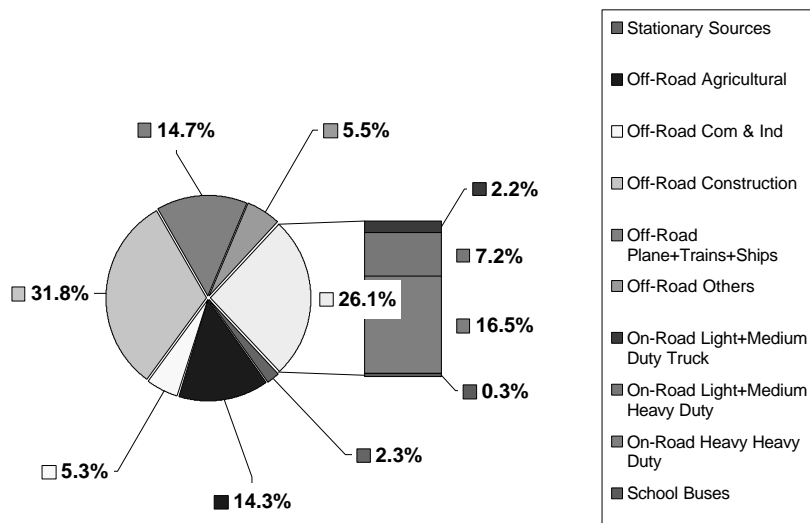


## Diesel PM Responsible for 70% of Year 2000 Statewide Risk from Air Toxics Emissions



3

## 2000 Diesel PM Emissions Inventory By Category



4

## **The Diesel Risk Reduction Plan**

- Reduce emissions from *new* mobile, portable, and stationary engines
- Reduce emissions from *existing* mobile, portable, and stationary engines
  - retrofit where economically reasonable
- Provide very low-sulfur diesel fuel (15ppm) for diesel traps

5

## **What Does the Diesel Risk Reduction Plan Recommend for Agricultural Equipment?**

- Reduction in diesel PM emissions from new and existing mobile, portable, and stationary agricultural equipment
- Use of low-sulfur diesel fuel
- Consideration of alternative technologies

6

## Implementation Goals

- Apply controls where it makes sense
- Maintain agricultural viability
- Foster use of incentives
- Encourage participation from agricultural community
- Address agricultural concerns

7

## Initial Focus on Categories with Highest Diesel PM Emissions

- Agricultural engines that emit over 97 percent of diesel PM emissions
  - tractors
  - irrigation pumps



8

## How Can we Reduce Diesel PM from New and Existing Agricultural Engines and Vehicles?

- Establish new engine standards
- Promote use of alternative technologies
- U.S. EPA needs to reduce emissions from new farm equipment < 175 hp
- Retrofit with catalyst-based DPFs
- Investigate opportunities for incentives to retrofit existing engines
- Voluntary non-regulatory programs

9

## Benefits of Plan



- Significantly reduces diesel PM emissions
- 75% reduction in potential cancer risks by 2010, 85% by 2020 (see next slide)

- Decrease in noncancer health effects (asthma, bronchitis)
- Improve visibility
- Reduce “soiling”

